

Chapter 10 – Lipids

10.1 Storage Lipid

The following sub-sections are important:

- The Introduction
- Fatty Acid are Hydrocarbon Derivatives
- Triacylglycerols are Fatty Acid Esters of Glycerol
- Triacylglycerols Provide Stored Energy and Insulation
- Partial Hydrogenation of Cooking Oils Improves Their Stability but Creates Fatty Acids with Harmful Health Effects
- Waxes Serve as Energy Stores and Water Repellents

10.2 Structural Lipids in Membranes

The following sub-sections are important:

- The Introduction
- Glycerophospholipids Are Derivatives of Phosphatidic Acid
- Sterols Have Four Fused Carbon Rings

10.3 Lipids as Signals, Cofactors and Pigments

The following sub-sections are important:

- The Introduction
- Eicosanoids Carry Messages to Nearby Cells
- Steroid Hormones Carry Messages Between Tissues
- Vitamins A and D Are Hormone Precursors
- Vitamins E and K and the Lipid Quinones Are Oxidation Cofactors